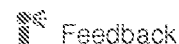Subscribe (Full Service)   Register (Limited Service, Free)   Login

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1   **Balancing energy efficiency and quality of aggregate data in sensor networks**
    A. Sharaf, Jonathan Beaver, Alexandros Labrinidis, K. Chrysanthis
    December 2004 The VLDB Journal — The International Journal on Very
            Large Data Bases, Volume 13 Issue 4
    Publisher: Springer-Verlag New York, Inc.
    Full text available: ▤ pdf(370.41 KB)   Additional Information: full citation, abstract, cited by, index terms

    In-network aggregation has been proposed as one method for reducing
    energy consumption in sensor networks. In this paper, we explore two
    ideas related to further reducing energy consumption in the context of
    in-network aggregation. The first is by <i>influencing ...

    Keywords: In-network query processing, Power-aware computing,
    Semantic routing, Sensor networks

2   **Optimized query planning of continuous aggregation queries in dynamic data dissemination networks**
    Rajeev Gupta, Krithi Ramamritham
    May 2007 WWW '07: Proceedings of the 16th international conference on
            World Wide Web
    Publisher: ACM
    Full text available: ▤ pdf(331.41 KB)   Additional Information: full citation, abstract, references, index terms

    Continuous queries are used to monitor changes to time varying data
    and to provide results useful for online decision making. Typically a user
    desires to obtain the value of some aggregation function over distributed
    data items, for example, to know ...

    Keywords: content distribution networks, continuous aggregation
    queries, data coherency, dynamic data, query dissemination cost

3   **Fundamental bounds on the accuracy of network performance measurements**

Matthew Roughan
June 2005 ACM SIGMETRICS Performance Evaluation Review, Volume
33 Issue 1
Publisher: ACM

Additional Information: full citation, abstract,
references, cited by, index
terms

Full text available: pdf(334.86 KB)

This paper considers the basic problem of "how accurate can we make
Internet performance measurements". The answer is somewhat counter-
intuitive in that there are bounds on the accuracy of such
measurements, no matter how many probes we can use in a ...

Keywords: error estimation, internet measurement, load balancing,
measurement planning, network performance

4   An end-system approach to mobility management for 4G networks
and its application to thin-client computing
Leo Patanapongpibul, Glenford Mapp, Andy Hopper
July 2006 ACM SIGMOBILE Mobile Computing and Communications
Review, Volume 10 Issue 3
Publisher: ACM

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references,
index terms

This paper describes work centred around providing greater autonomy
for mobile nodes to roam in Mobile IPv6 wireless networks based on a
new handoff mechanism. This technique, called the Client-based
Handoff, enables mobile nodes to roam in foreign wireless ...

5   Trade-off between energy savings and source-to-sink delay in data
dissemination for wireless sensor networks
Habib M. Ammari, Sajal K. Das
October 2005 MSWiM '05: Proceedings of the 8th ACM international
symposium on Modeling, analysis and simulation of wireless
and mobile systems
Publisher: ACM

Full text available: pdf(393.55 KB) Additional Information: full citation, abstract,
references, index terms

Wireless sensor networks (WSNs) consist of large numbers of
unattended sensors with limited storage, energy (battery power) and
computational and communication capabilities. Because battery power is
the most crucial resource for sensor nodes and delay ...

Keywords: energy savings, source-to-sink delay, wireless sensor
networks

6   Network Management & Monitoring with Linux
David Guerrero
June 1997 Linux Journal, Volume 1997 Issue 38es
Publisher: Specialized Systems Consultants, Inc.

Full text available: Additional Information: full citation, abstract,

html(26.92 KB)　　　　　　　　references, index terms

Monitoring network activity is a necessity for today's managers. Here are some handy and easily accessible tools for doing so

7　Fundamental bounds on the accuracy of network performance measurements
Matthew Roughan
June 2005 SIGMETRICS '05: Proceedings of the 2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems
Publisher: ACM

Full text available: pdf(334.86 KB)

Additional Information: full citation, abstract, references, cited by, index terms

This paper considers the basic problem of "how accurate can we make Internet performance measurements". The answer is somewhat counter-intuitive in that there are bounds on the accuracy of such measurements, no matter how many probes we can use in a ...

Keywords: error estimation, internet measurement, load balancing, measurement planning, network performance

8　Resource discovery in locality-aware group-based semantic overlay of peer-to-peer networks
Yinglin Sun, Liang Sun, Xiaohui Huang, Yu Lin
May 2006 InfoScale '06: Proceedings of the 1st international conference on Scalable information systems
Publisher: ACM

Full text available: pdf(906.57 KB)　Additional Information: full citation, abstract, references, index terms

The resource discovery is a critical component of the P2P file-sharing network. However, because of the huge overhead of locating operation or management, neither the traditional methods, such as Flooding, EPS and Random Walks, provide high performance ...

9　CANDID: preventing sql injection attacks using dynamic candidate evaluations
Sruthi Bandhakavi, Prithvi Bisht, P. Madhusudan, V. N. Venkatakrishnan
October 2007 CCS '07: Proceedings of the 14th ACM conference on Computer and communications security
Publisher: ACM

Full text available: pdf(426.01 KB)　Additional Information: full citation, abstract, references, index terms

SQL injection attacks are one of the topmost threats for applications written for the Web. These attacks are launched through specially crafted user input on web applications that use low level string operations to construct SQL queries. In this work, ...

Keywords: dynamic monitoring, retrofitting code, sql injection attacks, symbolic evaluation

10 Dynamic program insertion in high quality video over IP
Taehyun Kim, Jack Brassil
June 2003 NOSSDAV '03: Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video
Publisher: ACM

Full text available: pdf(269.10 KB)   Additional Information: full citation, abstract, references, index terms

We introduce an overlay network architecture and signaling mechanism that permit program insertions in live, high quality video streams transmitted over IP networks. We describe the implementation of an application proxy that dynamically inserts pre-recorded ...

Keywords: content delivery networks (CDNs), digital television (DTV), multimedia signaling, program and system information protocol (PSIP), program cues, real-time transport protocol (RTP), video streaming

11 Design and evaluation of a conit-based continuous consistency model for replicated services
Haifeng Yu, Amin Vahdat
August 2002 ACM Transactions on Computer Systems (TOCS),   Volume 20 Issue 3
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(406.85 KB)   references, cited by, index terms

The tradeoffs between consistency, performance, and availability are well understood. Traditionally, however, designers of replicated systems have been forced to choose from either strong consistency guarantees or none at all. This paper explores the ...

Keywords: Conit, consistency model, continuous consistency, network services, relaxed consistency, replication

12 Using graphic turing tests to counter automated DDoS attacks against web servers
William G. Morein, Angelos Stavrou, Debra L. Cook, Angelos D. Keromytis, Vishal Misra, Dan Rubenstein
October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(256.83 KB)   references, cited by, index terms

We present WebSOS, a novel overlay-based architecture that provides guaranteed access to a web server that is targeted by a denial of service (DoS) attack. Our approach exploits two key characteristics of the web environment: its design around a human-centric ...

Keywords: Java, graphic turing tests, web proxies

13 An open architecture for next-generation telecommunication services

Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming

February 2004 ACM Transactions on Internet Technology (TOIT), Volume 4 Issue 1

Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(237.24 KB)

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

14 A persistent chat space for work groups: the design, evaluation and deployment of loops

Thomas Erickson, Wendy A. Kellogg, Mark Laff, Jeremy Sussman, Tracee Vetting Wolf, Christine A. Halverson, Denise Edwards

June 2006 DIS '06: Proceedings of the 6th conference on Designing Interactive systems

Publisher: ACM

Full text available: pdf(402.49 KB)

Additional Information: full citation, abstract, references, index terms

Loops is a text-based computer mediated communication system aimed at small- to medium-sized corporate work groups. We begin by discussing the goals of the system and the rationale behind its design, particularly its treatment of non-conversational text. ...

Keywords: CMC, CSCW, IM, awareness, chat, conversation, design, instant messaging, online environments, social proxy

15 A framework for collaborative control of applications

James R. Miller, Serhan Yengulalp, Patrick L. Sterner

March 2005 SAC '05: Proceedings of the 2005 ACM symposium on Applied computing

Publisher: ACM

Full text available: pdf(439.48 KB)

Additional Information: full citation, abstract, references, index terms

Highly interactive applications are increasingly being used in decision support systems. Highly interactive applications are increasingly being used in decision support systems. Frequently these applications are run in collaborative environments in which ...

Keywords: collaborative techniques, remote application control

16 Fault-tolerance in the Borealis distributed stream processing system

Magdalena Balazinska, Hari Balakrishnan, Samuel Madden, Michael
Stonebraker
June 2005 SIGMOD '05: Proceedings of the 2005 ACM SIGMOD
              international conference on Management of data
Publisher: ACM

Full text available: pdf(612.50 KB)   Additional Information: full citation, abstract,
                                                              references, cited by

We present a replication-based approach to fault-tolerant distributed
stream processing in the face of node failures, network failures, and
network partitions. Our approach aims to reduce the degree of
inconsistency in the system while guaranteeing that ...

17 DHTTP: an efficient and cache-friendly transfer protocol for the web

Michael Rabinovich, Hua Wang
December 2004 IEEE/ACM Transactions on Networking (TON), Volume
                          12 Issue 6
Publisher: IEEE Press
                                    Additional Information: full citation, abstract,
Full text available: pdf(487.71 KB)   references, index terms,
                                                              review

Today's HTTP carries Web interactions over client-initiated TCP
connections. An important implication of using this transport method is
that interception caches in the network violate the end-to-end principle
of the Internet, which severely limits deployment ...

Keywords: HTTP protocol, interception caching, internet, web
performance

18 Holistic aggregate resource environment

Eric Van Hensbergen, Charles Forsyth, Jim McKie, Ron Minnich
January 2008 ACM SIGOPS Operating Systems Review, Volume 42 Issue 1
Publisher: ACM

Full text available: pdf(318.14 KB)   Additional Information: full citation, abstract,
                                                              references

Within a few short years, we can expect to be dealing with multi-million-
thread programs running on million-core systems [16]. This will no
doubt stress the contemporary HPC software model which was
developed in a time when 512 cores was a large number. ...

19 A statistical approach to risk mitigation in computational markets

Thomas Sandholm, Kevin Lai
June 2007 HPDC '07: Proceedings of the 16th international symposium on
                High performance distributed computing
Publisher: ACM

                                    Additional Information: full citation, abstract, references,
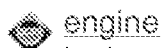
Full text available: 📄 pdf(1.66 MB)   index terms

> We study stochastic models to mitigate the risk of poor Quality-of-Service (QoS) in computational markets. Consumers whopurchase services expect both price and performance guarantees. They need to predict future demand to budget for sustained performance ...

> Keywords: QoS, resource allocation, service level management

20 Self-healing BPEL processes with Dynamo and the JBoss rule engine

Luciano Baresi, Sam Guinea, Liliana Pasquale
September 2007 ESSPE '07: International workshop on Engineering of software services for pervasive environments: in conjunction with the 6th ESEC/FSE joint meeting
Publisher: ACM

Full text available: 📄 pdf(571.67 KB)   Additional Information: full citation, abstract, references

> Many emerging domains such as ambient intelligence, context-aware applications, and pervasive computing are embracing the assumption that their software applications will be deployed in an open-world. By adopting the Service Oriented Architecture paradigm, ...

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